



Automated Message Handling | Wireless Networking | Information Assurance



*Xacta Web C&A: Automating the  
Transition of DoN Legacy  
Systems/Applications to NMCI*

Presented to the NMCI Industry  
Symposium

18 June, 2003

## *Agenda*

- Legacy Applications/Systems/Networks and NMCI
- The Legacy System Transition Process
- Xacta Web C&A 4.0: Automate and Manage the Process





## *Achieving the full potential of NMCI*

- The NMCI vision can only be fully realized when that network can support all the functions it takes to run the Navy
- This means integrating all the Navy specific applications and systems so they can run on NMCI
- Each NMCI site encounters many legacy systems/networks

Automated Message Handling | Wireless Networking | Information Assurance





# *Who is Responsible for Legacy Applications?*

- CIOs
- Central Design Activities
- Echelon 2 Commands
- Functional Area Managers

Information Assurance



Wireless Networking



Automated Message Handling

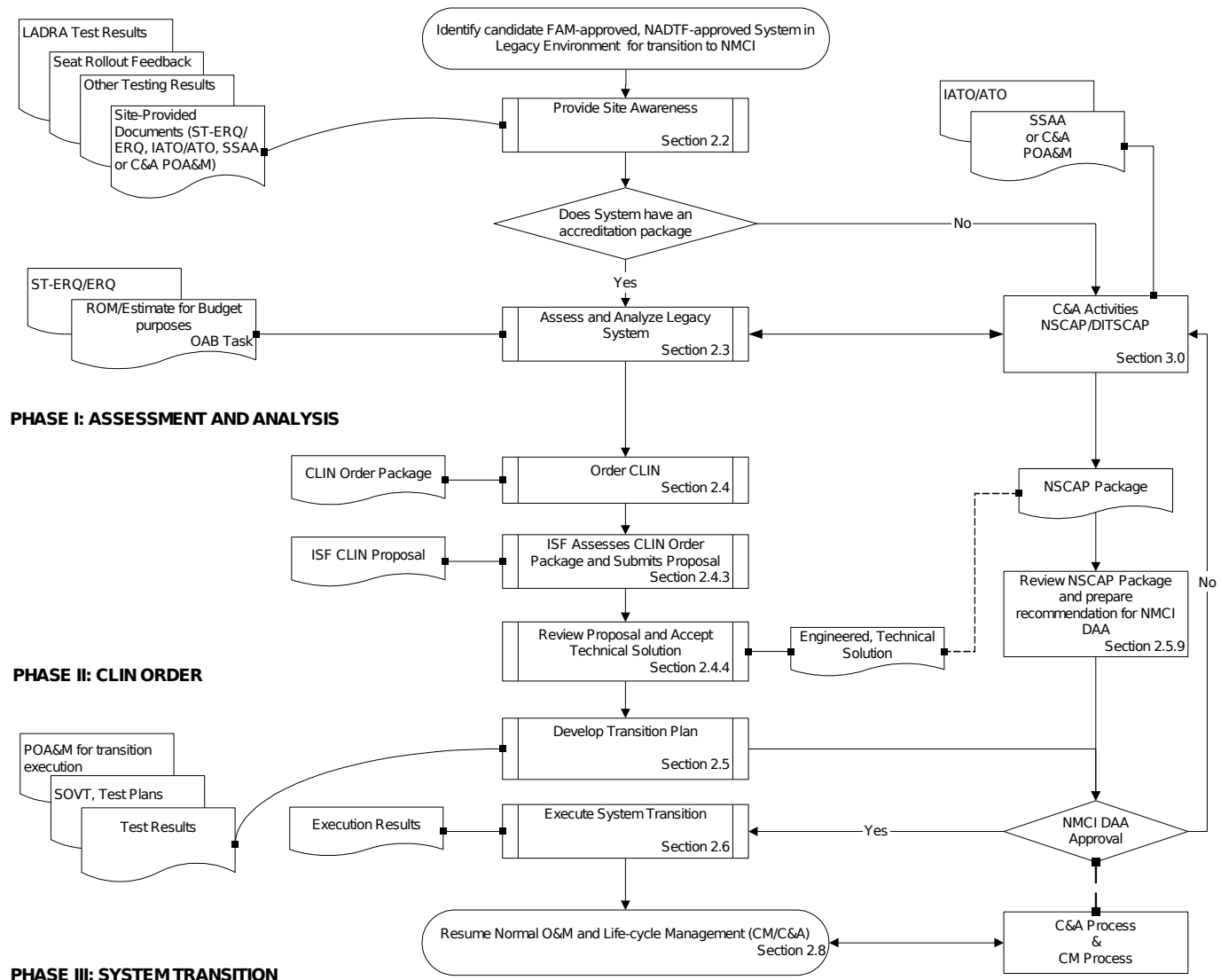


## *Transitioning to NMCI*

- No “Free Lunch”
  - Transition the legacy application to run on the NMCI network (CLIN 29)
  - Gain NMCI connection approval for the legacy system/application (CLIN 27)
- All solutions require NSCAP (NMCI Security Certification and Accreditation Process) and/or DITSCAP
- Telos and Xacta can help



## Transitioning the Legacy System





## *NMCI Specific Considerations*

- Consider how the NMCI user will utilize your application
  - Browser only (Web-enabled per TFW)
  - NMCI Hosted
  - NMCI Connected
    - Your servers, your network connected to NMCI
  - Desktop element vs. Server / System
    - Site C&A for a single local instance
    - Type accreditation for enterprise deployment
  - Inside DMZ

## *NMCI Considerations cont.*

- NMCI enforces existing DON/DoD security policies
  - Navy IA Pub 5239-13 Vols. I-III
- NMCI requires a functional certification
- Resources (available at [www.nmci.navy.mil](http://www.nmci.navy.mil))
  - NSCAP: NMCI Security Certification & Accreditation Process
  - LSTG: Legacy System Transition Guide (available soon)
  - NEADG: Navy Enterprise Application Developers Guide
  - NRDDG: NMCI Release Development and Deployment Guide





## NSCAP

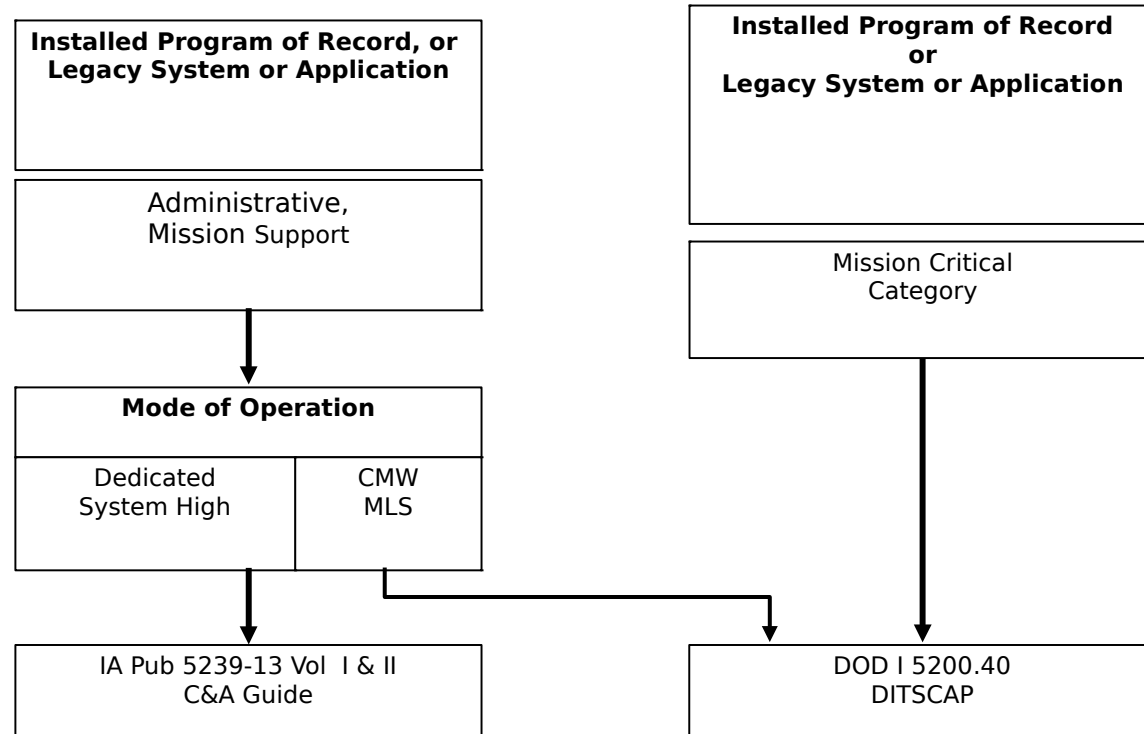
- Level of Effort is tailored based on
  - Mission criticality
  - Complexity
  - Mode of Operation
- May offer a more immediate path to IATO
  - Bridge to full DITSCAP and ATO, not a replacement
  - Some applications may go sunset before a full DITSCAP is needed
- Interpret and map accreditation requirements to systems/applications being transitioned





# NSCAP C&A Level of Effort Guidance

Information Assurance  
Wireless Networking  
Automated Message Handling



## NSCAP IA Requirements

Assurance  
Information



Wireless Networking



Automated Message Handling



Legacy System/Application Complexity	Level of Effort For: Mission Support/ Administrative Systems	Level of Effort For: Mission Critical Systems
Desktop/Client: Simple*	Requires: Risk Assessment •Functional and Security Certification Testing •Mobile Code Assessment	Requires: •Functional and Security Certification Testing •Mobile Code Assessment
Desktop/Client: Complex	Requires: Risk Assessment ** per Navy IA Pub 5239-13 Vol II (rev 01) •Checklist & Automated Vulnerability Assessment Tool •Functional and Security Certification Testing •B2 Firewall Baseline Configuration Compliance •Mobile Code Assessment •Navy Marine Corp NIPRNet Enclave Protection Policy Compliance	Requires: •Functional and Security Certification Testing •B2 Firewall Baseline Configuration Compliance •Mobile Code Assessment •Navy Marine Corp NIPRNet Enclave Protection Policy Compliance •DITSCAP ST&E and Risk Assessment •SSAA
Server Based/DBMS: Complex	Requires: Risk Assessment** per Navy IA Pub 5239-13 Vol II (rev 01) •Checklist & Automated Vulnerability Assessment Tool •Functional and Security Certification Testing •B2 Firewall Baseline Configuration Compliance •Mobile Code Assessment •Navy Marine Corp NIPRNet Enclave Protection Policy Compliance	Requires: •Functional and Security Certification Testing •B2 Firewall Baseline Configuration Compliance •Mobile Code Assessment •Navy Marine Corp NIPRNet Enclave Protection Policy Compliance •DITSCAP ST&E and Risk Assessment •SSAA

## Telos/Xacta contribution



Legacy System/Application Complexity	Level of Effort For: Mission Support/ Administrative Systems	Level of Effort For: Mission Critical Systems
Desktop/Client: Simple*	Requires: Risk Assessment • Functional and <b>Security Certification Testing</b> • <b>Mobile Code Assessment</b>	Requires: • Functional and <b>Security Certification Testing</b> • <b>Mobile Code Assessment</b>
Desktop/Client: Complex	Requires: <b>Risk Assessment** per Navy IA Pub 5239-13 Vol II (rev 01)</b> • <b>Checklist &amp; Automated Vulnerability Assessment Tool</b> • Functional and <b>Security Certification Testing</b> • <b>B2 Firewall Baseline Configuration Compliance</b> • <b>Mobile Code Assessment</b> • <b>Navy Marine Corp NIPRNet Enclave Protection Policy Compliance</b>	Requires: • Functional and <b>Security Certification Testing</b> • <b>B2 Firewall Baseline Configuration Compliance</b> • <b>Mobile Code Assessment</b> • <b>Navy Marine Corp NIPRNet Enclave Protection Policy Compliance</b> • <b>DITSCAP ST&amp;E and Risk Assessment</b> • <b>SSAA</b>
Server Based/DBMS: Complex	Requires: <b>Risk Assessment** per Navy IA Pub 5239-13 Vol II (rev 01)</b> • <b>Checklist &amp; Automated Vulnerability Assessment Tool</b> • Functional and <b>Security Certification Testing</b> • <b>B2 Firewall Baseline Configuration Compliance</b> • <b>Mobile Code Assessment</b> • <b>Navy Marine Corp NIPRNet Enclave Protection Policy Compliance</b>	Requires: • Functional and <b>Security Certification Testing</b> • <b>B2 Firewall Baseline Configuration Compliance</b> • <b>Mobile Code Assessment</b> • <b>Navy Marine Corp NIPRNet Enclave Protection Policy Compliance</b> • <b>DITSCAP ST&amp;E and Risk Assessment</b> • <b>SSAA</b>

### **Xacta Web C&A**

**XWCA configured for NSCAP** (Navy content and workflow, integration w/ other Navy tools like Securify)

**Xacta on site support and services available through Telos** (C&A, IA Services, Secure Software code audit, other IA products and services)

## *Telos/Xacta contribution*

- Telos: 30+ years government experience
- Xacta (Telos subsidiary): 13+ years IA experience
- Xacta Web C&A
  - Mature product (version 4.0)
  - Evaluated and/or recommended and being piloted by DON Organizations
    - SPAWAR (PMO, IATT, PMW-161)
    - COMNAVNETWARCOM
      - "An enterprise tool to support C&A at the CDA and ISSM level is crucial for getting to and maintaining secure networks."
      - Capt Bob Whitkop, COMNAVNETWARCOM N6, 1 April 2003
  - Director NMCI (PEO-IT)
    - APPLICATION SERVER MIGRATION PILOT Project
    - "The contractor shall validate the viability of Telos' Xacta Web technology as a Certification and Accreditation tool to be available to the enterprise as a centrally provided tool to track C&A data for all systems."
- Agency-wide adoption by: IRS, Army COE, Air National Guard, Dept. of Education





# *Xacta Web C&A Background*

- Browser based software application designed to automate the security certification & accreditation (C&A) process
- The software includes
  - Auto-Discovery (Xacta Detect)
  - Vulnerability Scan (Nessus)
  - Automatic generation of
    - Security Requirements Traceability Matrix
    - Test Plans
    - Risk assessments
    - SSAA documentation (including all appendices)
  - Workflow management
  - Executive reporting tools
- Continuous assessment of system & enterprise risk



## *The Xacta Solution*

### ***Software and Services That Enable Customers to Evolve From:***

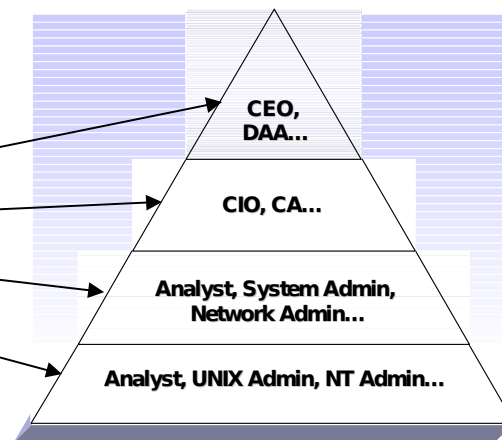
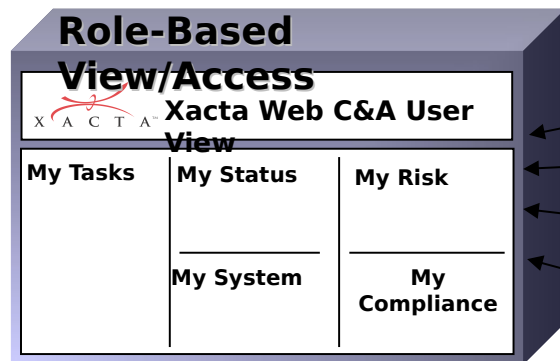
#### ***Compliance to***

#### ***Enterprise Risk Management***

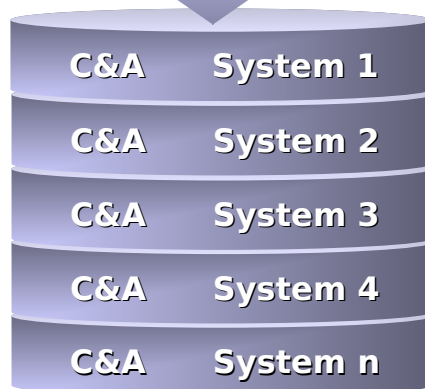
- Standards-based, C&A process compliant risk assessment
- Automated utilities for routine tasks (network discovery, inventory, system configuration, vulnerability scanning)
- Vast knowledgebase of security/agency regulations/policies correlated with test procedures
- Consistent, repeatable, efficient documentation generation capabilities
- Ability to identify change and assess its impacts on a daily or weekly basis rather than every three years
- Continuous risk profile, always-on
- Vulnerabilities matched to inventory to drive automated testing and alerts
- Hierarchical views pertinent to all levels of an enterprise; enable drill down to risk element detail and equipment configuration properties



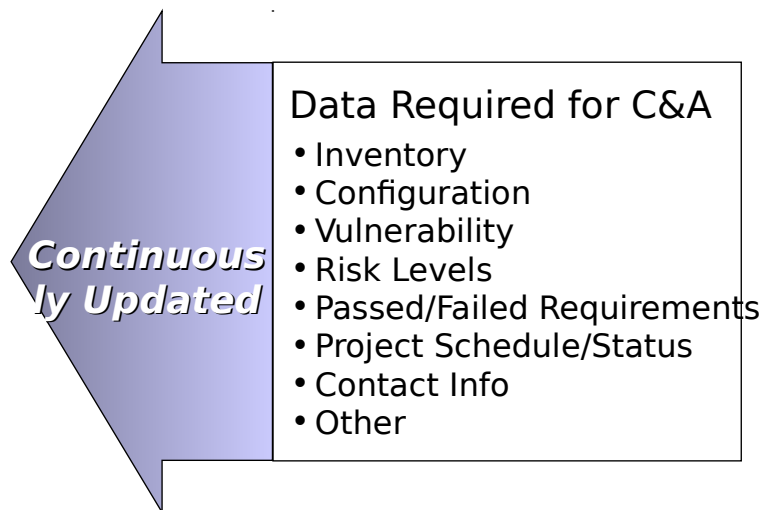
## From Compliance to Management



**Management**



**Compliance**



## One Application, Many Capabilities

Automated Message Handling | Wireless Networking | Information Assurance



Functional Components	Xacta Software (Component Capabilities)	OTHER PRODUCTS/VENDORS (Xacta Does/Could Work With)
Detect	<ul style="list-style-type: none"> <li>• System Discovery &amp; OS Detection</li> <li>• Inventorying Utilities</li> <li>• Vulnerability Scanner</li> <li>• Vulnerability Notification Service</li> </ul>	<ul style="list-style-type: none"> <li>• DoD IAVA, DISA STIGs, Harris STAT, Securify, NESSUS, CERT Advisories, ISS, Tivoli, AF TCNO, NetRecon, SecurityAnalyst, iDefense, SecurityFocus.com, HP-OV, CA Unicenter, SecureInfo, Symantec ESM</li> </ul>
Protect	<ul style="list-style-type: none"> <li>• Compliance to Standards</li> <li>• Risk Calculation &amp; Mitigation Model</li> <li>• Process Automation &amp; Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Big 5, Systems Integrators, Work Flow Product Vendors (Handysoft, Qlink, QualTrax)</li> </ul>
React	<ul style="list-style-type: none"> <li>• Configuration Alerts &amp; Notifications</li> </ul>	<ul style="list-style-type: none"> <li>• MSSP, EM/ESM Product Vendors</li> </ul>
Work Flow	<ul style="list-style-type: none"> <li>• Customizable Work Flows</li> </ul>	<ul style="list-style-type: none"> <li>• Bizflow, Activeflow, Qlink</li> </ul>
Knowledgebase	<ul style="list-style-type: none"> <li>• Requirements, Regulations, Vulnerabilities, Impact Statements, Trend Data, Systems Information</li> </ul>	<ul style="list-style-type: none"> <li>• Boutique Security Firms, Big 5, Systems Integrators</li> </ul>
Reporting	<ul style="list-style-type: none"> <li>• Automated Document Publishing</li> <li>• Management &amp; Project Status Reports</li> </ul>	<ul style="list-style-type: none"> <li>• Manual Templates, Crystal Reports</li> <li>• Manual Query &amp; Reporting</li> </ul>
Architecture	<ul style="list-style-type: none"> <li>• Web Server (Apache/Tomcat/Catalina)</li> <li>• Database-driven</li> <li>• MS Windows &amp; Office Compatible</li> </ul>	<ul style="list-style-type: none"> <li>• IBM WebSphere, MS IIS, Oracle, MS SQL, DB 2, MS Access, Solaris, Linux, HP-UX</li> </ul>
Consulting Support	<ul style="list-style-type: none"> <li>• Xacta Advisor Online Consulting via Chat &amp; Email</li> </ul>	<ul style="list-style-type: none"> <li>• Boutique Security Firms, Big 5, Systems Integrators</li> </ul>

## *Xacta Web C&A is Tailorable to Support NMCI Legacy Transition*

- Customizable workflow supports roles across multiple organizations
  - Site transition team, local DAA
  - CDA
  - EDS
  - SPAWAR (NMCI PMO, IATT, PMW-161)
  - CNNWC
- LOE/CLIN decision support
- NMCI specific IA policy
  - IA Pub 5239-13 I-III
- Custom Checklists
  - ERQ
  - NSCAP
  - Test Plans
- Custom Reporting
  - NMCI specific risk/vulnerability assessments and status reports
  - Aggregated for the site, Command, CDA, POR, FAM, DAA level
- Custom Publishing
  - CLIN specific documentation packages



# TELOS

## DON Regulations in Knowledgebase

Manage Regulations - Microsoft Internet Explorer

Resources Preferences Settings About Logoff

Manage Regulations Help

Page History Save Reset Add Copy/Replace Delete Selected

**My Home**  
**My Accounts**  
**My Projects**  
**My Folders**  
 Corp  
 Folder Reports  
 Accounts  
 Projects  
 Satellite Tracking System  
 Tasks  
 Content Management  
 Manage Regulations  
 Manage Test Groups  
 Manage Lookups  
 Manage Software  
 Process Steps  
 Roles  
 Project Reports  
 Audit

Select	Open	Short Title	Full Title	Author	Date	Use	Properties	Copy	Delete
<input type="checkbox"/>		<a href="#">AFI 31-501</a>	AFI 31-501, Personnel Security Program	U.S. Air Force	1 August 2000	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">AFI 33-114</a>	AFI 33-114, Software Management	U.S. Air Force	1 July 2000	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">DCID 6/3</a>	Director of Central Intelligence Directive 6/3, Protecting Sensitive Compartmented Information Within Information Systems	Director of Central Intelligence	5 June 1999	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">DoD 5200.1-R</a>	DoD 5200.1-R, DoD Information Security Program Regulation	Department of Defense	January 1997	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">DoDD 8500.1</a>	Department of Defense Directive 8500.1, Information Assurance (IA)	Department of Defense	24 October 2002	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">DoDD C-5200.5</a>	DoD Directive C-5200.5, Communications Security (COMSEC)	Department of Defense	6 October 1981	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">IAVA CM 99-031</a>	IAVA Compliance Message 99-031, Securing Windows NT 4.0 Server/Workstation	ODISC4	4 March 1999	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">NAVSOP-5239-15</a>	NAVSOP-5239-15, Controlled Access Protection (CAP) Guidebook	Department of Navy	December 1994	<input checked="" type="checkbox"/>			
<input type="checkbox"/>		<a href="#">OMB A-130</a>	Office of Management and Budget Circular A-130, Management of Federal Information Resources (Appendix III)	Office of Management and Budget	30 November 2000	<input checked="" type="checkbox"/>			

50 Set

Records: 1-50 out of 85

Copyright © 2002-2003 Xacta Corp. madmin (Built-in Administrator)

Xacta maintains the Navy content

Information Assurance

Wireless Networking

Automated Message Handling



## Projects listed per User Access

Admin assigns users to projects

Projects - Microsoft Internet Explorer

Resources Preferences Forum Advisor About Logoff UNCLASSIFIED

XACTA

Back to ... Add Restore

My Home  
My Accounts  
My Projects  
My Folders  
  Xacta Marketing  
  Folder Reports  
  Accounts  
  Projects  
  Audit  
Audit

Open	Status	Customer ID	Project Name	Expiration	Archive	Assign Users	Properties	Delete
		60222507	Bridge	04/15/2006				
			NIST 800-18 Standard DoED Project Template					
		13162741	PBVA	05/12/2006				
		0	Project1	04/17/2004				
		0	Project2	04/17/2004				
		13162741	XCT Bridge	05/12/2006				

Records: 1-6 out of 6

UNCLASSIFIED//FOR OFFICIAL USE ONLY Copyright© 2002-2003 Xacta Corporation. All Rights Reserved. Logged in as: dwilson (Administrator)

Folder Administrator can see all projects in their folder



## User Access by Project Role



Roles - Microsoft Internet Explorer

Resources Preferences Forum Advisor About Logoff UNCLASSIFIED//FOR OFFICIAL USE ONLY

XACTA

Roles

Back to ... Save Reset Add Copy/Replace Delete Selected

Select	Rank	Role Name	Description	Properties	Copy	Delete
<input type="checkbox"/>	1	Designated Approving Authority (DAA)	Approving Authorities			
<input type="checkbox"/>	2	Certification Authority (CA)	Approving Authorities			
<input type="checkbox"/>	11	Information System Security Manager (ISSM)	Infosec Management			
<input type="checkbox"/>	12	Information Assurance Manager (IAM)	Infosec Management			
<input type="checkbox"/>	13	Information System Security Officer (ISSO)	Infosec Management			
<input type="checkbox"/>	14	Information Assurance Security Officer	Infosec Management			
<input type="checkbox"/>	21	Organization Responsible	System Owner			
<input type="checkbox"/>	22	Program Manager	System Owner			
<input type="checkbox"/>	23	User Representative	System Owner			
<input type="checkbox"/>	24	Network Administrator	System Owner			
<input type="checkbox"/>	25	Physical Security Officer	System Owner			
<input type="checkbox"/>	26	Configuration Management	System Owner			
<input type="checkbox"/>	31	Certification Team Lead	C&A Team			
<input type="checkbox"/>	32	Certification Team Member	C&A Team			

My Home  
My Accounts  
My Projects  
My Folders  
Xacta Marketing  
Folder Reports  
Accounts  
Projects  
Project2  
Tasks  
Process Steps  
Roles  
Project Reports  
Audit  
Audit

UNC... Xacta Corporation. All Rights Reserved.

Role names can be changed

Role properties dictate access

# TELOS

## IA Situational Awareness Reporting

Automated Message Handling | Wireless Networking | Information Assurance



**Risk Report - Microsoft Internet Explorer**

Resources Preferences Forum Advis... CLASSIFIED//FOR OFFICIAL USE ONLY

**XACTA**

Back to ... Generate .PDF

**My Home**

- Inbox
- Home Report
- Projects Report
- Accounts Report
- Risk Report**
- Compliance Report
- Vulnerability Report
- Inventory Report
- Public Projects Report
- Task Trends Report
- System Settings Report

**My Accounts**

**My Projects**

**My Folders**

**Audit**

**Risk Level**

Risk Level (58 Projects)

**Risk Level Detail**

Total Folders: 12  
Total Projects: 58  
Risk Level: High

Risk Levels:

- High: 47
- Medium-High: 1
- Medium: 2
- Medium-Low: 0
- Low: 1

**Project Risk Levels by Folder**

Folder	Project	Risk Level	Total Risk Elements	Status	Project POC
<a href="#">DITSCAP Evaluations</a>	<a href="#">WRQ Project</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DITSCAP Evaluations</a>	<a href="#">Christian Community Credit Union</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DITSCAP Evaluations</a>	<a href="#">CNRSE</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DITSCAP Evaluations</a>	<a href="#">Northrop Grumman Information Technology/TASC</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DITSCAP Evaluations</a>	<a href="#">AMS</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DITSCAP Evaluations</a>	<a href="#">USNA</a>	High	2	Active	<a href="#">Q</a>
<a href="#">DCID Evaluations</a>	<a href="#">BAH DCID Project</a>	High	30	Active	<a href="#">Q</a>

50 Set Records: 1-50 out of 58

UNCLASSIFIED//FOR OFFICIAL USE ONLY

Logged in as: dwilson (Administrator)

**Executive-friendly charts**

**Sortable by risk level**

# TELOS

## Portalized Project Status Reporting

Automated Message Handling | Wireless Networking | Information Assurance



Projects Report - Microsoft Internet Explorer

Resources Preferences Forum Advisor About Logoff UNCLASSIFIED//FOR OFFICIAL USE ONLY

### Projects Report

Back to ... Generate .PDF

**My Home**  
 Inbox  
 Home Report  
**Projects Report**  
 Accounts Report  
 Risk Report  
 Compliance Report  
 Vulnerability Report  
 Inventory Report  
 Public Projects Report  
 Task Trends Report  
 System Settings Report

**My Accounts**  
**My Projects**  
**My Folders**  
**Audit**

**Summary**

**Total Projects(Active/Inactive):** 58 (58/0)  
**Total Admins(Active/Inactive):** 8 (8/0)  
**Total Execs(Active/Inactive):** 0 (0/0)  
**Total Users(Active/Inactive):** 42 (40/2)

**Projects**

Folder	Name	Status	Expiration	Last Snapshot	Certification Level	Tasks (Approved/Total)	Available As Template
<a href="#">Credit Union Evaluations</a>	<a href="#">Omitron, Inc.</a>	Active	06/28/2003		3 - Detailed Analysis	0/6	No
<a href="#">DCID Evaluations</a>	<a href="#">BAH DCID Project</a>	Active	06/18/2003		3 - Detailed Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">AMS</a>	Active	06/18/2003		3 - Detailed Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">BAH Naw Project</a>	Active	07/03/2003		3 - Detailed Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">Breakwater Security Associates</a>	Active	06/05/2003		4 - Extensive Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">Christian Community Credit Union</a>	Active	06/15/2003		3 - Detailed Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">CNRSE</a>	Active	06/15/2003		3 - Detailed Analysis	0/6	No
<a href="#">DITSCAP Evaluations</a>	<a href="#">CSC Project</a>	Active	05/31/2003		2 - Minimum Analysis	0/6	No

50 Set 1 2

UNCLASSIFIED//FOR OFFICIAL USE ONLY Copyright © 2002-2003 Xacta Corporation. All Rights Reserved.

**Summary roll-up:  
Site/ISSM, DAA,  
CDA, FAM, NMCI-  
wide**

**Sortable &  
viewable  
by folder**

**Integrated  
with Workflow**

## *More Information*

- See a product demonstration of Xacta Web C&A at the Telos booth in the exhibit hall
- Consider other Telos enterprise solutions for NMCI
  - Secure Wireless Networking
  - Enterprise DMS Solution: Telos AMHS
- Contact us:

Tom Ryder

Sr. Account Manager

Telos Corporation

Tel. 703-724-4718

Fax 703-724-3865

Mobile 571-218-2223

E-mail [tom.ryder@telos.com](mailto:tom.ryder@telos.com)

[www.xacta.com](http://www.xacta.com) [www.telos.com](http://www.telos.com)

